

133-02 US SEQ LIST 20nov2003.ST25.txt  
SEQUENCE LISTING

<110> REPRESENTATIVE: Greenlee, winner and Sullivan, P.C.  
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<120> PLASTIC AND ELASTIC PROTEIN COPOLYMERS

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<150> US 60/428,438  
<151> 2002-11-22

<150> CA 2,417,634  
<151> 2003-01-29

<150> JP 2003-98691  
<151> 2003-04-01

<150> AU 2003236491  
<151> 2003-08-27

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<220>  
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Val Pro Gly Val Gly  
1 5

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<213> Artificial

<220>

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Ala Pro Gly Val Gly Val  
1 5

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<220>

<221> REPEAT

<222> (2)..(6)

<223> Repeat residues 2 to 6; total of 19 repeat units.

G-(VPGVG)19-VPGV

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Gly Val Pro Gly Val Gly Val Pro Gly Val  
1 5 10

<210> 5

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<220>

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<400> 5

Val Pro Ala Val Gly  
1 5

<210> 6

<211> 5

<212> PRT

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<220>

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<400> 6

Ile Pro Ala Val Gly  
1 5

<210> 7

<211> 5

<212> PRT  
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<220>  
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<400> 7

Val Pro Asn Val Gly  
1 5

<210> 8  
<211> 25  
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<213> Artificial

<220>  
<223> synthetic construct.

<400> 8

Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly  
20 25

<210> 9  
<211> 25  
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<220>  
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<220>  
<221> REPEAT  
<222> (1)..(25)  
<223> [VPAVG(IPAVG)4]n

<400> 9

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly  
20 25

<210> 10  
<211> 25  
<212> PRT  
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<220>  
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<220>  
 <221> REPEAT  
 <222> (1)..(25)  
 <223> [(IPAVG)4(VPAVG)]n

<400> 10

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly  
 20 25

<210> 11  
 <211> 25  
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<220>  
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<400> 11

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly  
 20 25

<210> 12  
 <211> 25  
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 <213> Artificial

<220>  
 <223> Synthetic construct

<400> 12

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly  
 20 25

<210> 13  
 <211> 5  
 <212> PRT  
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<220>  
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<400> 13

Val Pro Gly Glu Gly  
 1 5

<210> 14  
 <211> 25  
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<220>  
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<400> 14

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

<210> 15  
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<220>  
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<400> 15

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Glu Gly  
 20 25

<210> 16  
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<220>  
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 <222> (1)..(25)  
 <223> [(VPGEG)(VPGVG)4]m;  
 alternatively [VPGEGVPGVG VPGVGVPVG VPGVG]m

<400> 16

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

<210> 17  
 <211> 25  
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<220>  
 <223> synthetic construct

<220>  
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 <222> (1)..(25)  
 <223> [VPGVGVPVGVP VPGVGVPVGVP VPGEG]<sub>m</sub>

<400> 17

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Glu Gly  
 20 25

<210> 18  
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<220>  
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<400> 18

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

<210> 19  
 <211> 25  
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<220>  
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<220>  
 <221> REPEAT  
 <222> (1)..(25)  
 <223> [(VPGVG)<sub>2</sub> VPGEG (VPGVG)<sub>2</sub>]<sub>m</sub>

<400> 19

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
                   20                  25

<210> 20  
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<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (1)..(25)  
 <223> Repeat [VPGVGVPGIG VPGVGVPGIG VPGVG] for a total of 19 units  
           alternatively [VPGVG(VPGIGVPGVG)2]19

<400> 20

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val  
 1                  5                  10                  15

Pro Gly Ile Gly Val Pro Gly Val Gly  
                   20                  25

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 <211> 485  
 <212> PRT  
 <213> Artificial

<220>  
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<400> 21

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val  
 1                  5                  10                  15

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro  
                   20                  25                  30

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly  
                   35                  40                  45

Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile  
                   50                  55                  60

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly  
 65                  70                  75                  80

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val  
                   85                  90                  95

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Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
100 105 110

Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly  
115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val  
130 135 140

Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
145 150 155 160

Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val  
165 170 175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro  
180 185 190

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly  
195 200 205

Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile  
210 215 220

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly  
225 230 235 240

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro  
260 265 270

Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
275 280 285

Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val  
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly  
305 310 315 320

Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
325 330 335

Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro  
340 345 350



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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly  
355 360 365

Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val  
370 375 380

Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly  
385 390 395 400

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val  
405 410 415

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro  
420 425 430

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly  
435 440 445

Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile  
450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly  
465 470 475 480

Val Pro Gly Val Gly  
485

<210> 22  
<211> 6  
<212> DNA  
<213> Artificial

<220>  
<223> Synthetic construct

<400> 22  
ctcttc

6

<210> 23  
<211> 760  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

<400> 23

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

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Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
20 25 30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
35 40 45

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
50 55 60

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
85 90 95

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
100 105 110

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
130 135 140

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
145 150 155 160

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
165 170 175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
180 185 190

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
195 200 205

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
210 215 220

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
225 230 235 240

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
260 265 270

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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
275 280 285

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
305 310 315 320

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
325 330 335

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
340 345 350

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
355 360 365

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
370 375 380

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
385 390 395 400

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
435 440 445

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
450 455 460

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
465 470 475 480

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
485 490 495

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
500 505 510

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly

515

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
565 570 575

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
580 585 590

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
610 615 620

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
625 630 635 640

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
660 665 670

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
675 680 685

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
740 745 750

Gly Val Gly Val Pro Gly Val Gly  
755 760

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<210> 24  
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<400> 24

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 35 40 45

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 50 55 60

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 85 90 95

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 100 105 110

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
 130 135 140

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 145 150 155 160

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
 165 170 175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 180 185 190

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 195 200 205

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 210 215 220 225 230 235 240

210

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
225 230 235 240

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
260 265 270

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
275 280 285

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
305 310 315 320

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
325 330 335

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
340 345 350

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
355 360 365

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
370 375 380

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
385 390 395 400

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
435 440 445

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
450 455 460

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 465 470 475 480  
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 485 490 495  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 500 505 510  
 Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 515 520 525  
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 530 535 540  
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 545 550 555 560  
 Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
 565 570 575  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 580 585 590  
 Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 595 600 605  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 610 615 620  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 625 630 635 640  
 Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 645 650 655  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 660 665 670  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 675 680 685  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 690 695 700  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 705 710 715 720

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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
755 760 765

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
785 790 795 800

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
805 810 815

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
835 840 845

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
850 855 860

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
885 890 895

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
900 905 910

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
915 920 925

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
945 950 955 960

<210> 25  
<211> 1210



<212> PRT  
 <213> Artificial

<220>  
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<400> 25

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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
1      5      10     15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
20     25     30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
35     40     45

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
50     55     60

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
65     70     75     80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val
85     90     95

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
100    105    110

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly
115    120    125

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu
130    135    140

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
145    150    155    160

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val
165    170    175

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
180    185    190

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
195    200    205

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val
210    215    220

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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 225 230 235 240  
 Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 245 250 255  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 260 265 270  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 275 280 285  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 290 295 300  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 305 310 315 320  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 325 330 335  
 Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 340 345 350  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 355 360 365  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 370 375 380  
 Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
 385 390 395 400  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 405 410 415  
 Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 420 425 430  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 435 440 445  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 450 455 460  
 Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 465 470 475 480

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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
485 490 495

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
500 505 510

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
515 520 525

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
565 570 575

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
580 585 590

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
610 615 620

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
625 630 635 640

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
660 665 670

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
675 680 685

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val

725

730

735

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 740 745 750

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 755 760 765

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
 785 790 795 800

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 805 810 815

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 835 840 845

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 850 855 860

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 885 890 895

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 900 905 910

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 915 920 925

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
 930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
 965 970 975

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 980 985 990

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 995 1000 1005

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 1010 1015 1020

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1025 1030 1035

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 1040 1045 1050

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1055 1060 1065

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1070 1075 1080

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 1085 1090 1095

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1100 1105 1110

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 1115 1120 1125

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1130 1135 1140

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1145 1150 1155

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 1160 1165 1170

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1175 1180 1185

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 1190 1195 1200

Val Gly Val Pro Gly Val Gly  
 1205 1210

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<210> 26  
 <211> 35  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (6)..(30)  
 <223> Repeat residues 6 to 30; total of 30 repeat units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]30 VPGVG

<400> 26

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 20 25 30

Gly Val Gly  
 35

<210> 27  
 <211> 35  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct

<220>  
 <221> REPEAT  
 <222> (6)..(30)  
 <223> Repeat residues 6 to 30; total of 38 units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]38 VPGVG

<400> 27

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 20 25 30

Gly Val Gly  
 35

<210> 28  
 <211> 35

<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct

<220>  
<221> REPEAT  
<222> (6)..(30)  
<223> Repeat residues 6 to 30; total of 48 units.

VPGVG[(VPGVG)2 VPGE (VPGVG)2]48 VPGVG

<400> 28

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
20 25 30

Gly Val Gly  
35

<210> 29  
<211> 35  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (6)..(30)  
<223> Repeat residues 6 to 30; total of 12 units.

VPGVG [(VPGVG)(VPNVG)4]12 VPGVG

<400> 29

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val  
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
20 25 30

Gly Val Gly  
35

<210> 30  
<211> 310  
<212> PRT  
<213> Artificial

&lt;220&gt;

&lt;223&gt; synthetic construct.

&lt;400&gt; 30

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val  
1 5 10 15

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
20 25 30

Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn  
35 40 45

Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val  
50 55 60

Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
85 90 95

Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro  
100 105 110

Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn  
115 120 125

Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
130 135 140

Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly  
145 150 155 160

Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
165 170 175

Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro  
180 185 190

Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly  
195 200 205

Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
210 215 220

Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly  
225 230 235 240



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Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
260 265 270

Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn  
275 280 285

Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
290 295 300

Gly Val Pro Gly Val Gly  
305 310

<210> 31  
<211> 12  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (1)..(12)

<400> 31

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
1 5 10

<210> 32  
<211> 22  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (6)..(17)  
<223> Repeat residues 6 to 17; total of 2 x 23 = 46 units.

VPGVG [(APGGVPGGAPGG)2]23 VPGVG

<400> 32

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
1 5 10 15

Gly Val Pro Gly Val Gly  
20

<210> 33  
<211> 562  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 33

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
1 5 10 15

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
20 25 30

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
35 40 45

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
50 55 60

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
65 70 75 80

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
85 90 95

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
100 105 110

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
115 120 125

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
130 135 140

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
145 150 155 160

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
165 170 175

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
180 185 190

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
Page 26

195

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
210 215 220

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
225 230 235 240

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
245 250 255

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
260 265 270

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
275 280 285

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
290 295 300

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
305 310 315 320

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
325 330 335

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
340 345 350

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
355 360 365

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
370 375 380

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
385 390 395 400

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
405 410 415

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
420 425 430

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
435 440 445

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 450 455 460

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 465 470 475 480

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 485 490 495

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 500 505 510

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 515 520 525

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 530 535 540

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 545 550 555 560

Val Gly

<210> 34  
 <211> 22  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<220>  
 <221> REPEAT  
 <222> (6)..(17)  
 <223> Repeat residues 6 to 17; total of 2 x 30 = 60 units.

VPGVG [(APGGVPGGAPGG)2]30 VPGVG

<400> 34

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 1 5 10 15

Gly Val Pro Gly Val Gly  
 20

<210> 35  
 <211> 730  
 <212> PRT  
 <213> Artificial

&lt;220&gt;

&lt;223&gt; Synthetic construct.

&lt;400&gt; 35

Val Pro Gly Val Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 1 5 10 15

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 20 25 30

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 35 40 45

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 50 55 60

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 65 70 75 80

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 85 90 95

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 100 105 110

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 115 120 125

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 130 135 140

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 145 150 155 160

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 165 170 175

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 180 185 190

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 195 200 205

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 210 215 220

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 225 230 235 240

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Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
245 250 255

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
260 265 270

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
275 280 285

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
290 295 300

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
305 310 315 320

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
325 330 335

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
340 345 350

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
355 360 365

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
370 375 380

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
385 390 395 400

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
405 410 415

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
420 425 430

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
435 440 445

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
450 455 460

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
465 470 475 480

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
Page 30

485

490

495

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 500 505 510

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 515 520 525

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 530 535 540

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 545 550 555 560

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 565 570 575

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 580 585 590

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 595 600 605

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 610 615 620

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 625 630 635 640

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 645 650 655

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 660 665 670

Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 675 680 685

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly  
 690 695 700

Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly  
 705 710 715 720

Gly Ala Pro Gly Gly Val Pro Gly Val Gly  
 725 730

<210> 36  
 <211> 10  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<400> 36

Ile Pro Gly Val Gly Val Pro Gly Val Gly  
 1 5 10

<210> 37  
 <211> 25  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<220>  
 <221> REPEAT  
 <222> (1)..(25)

<400> 37

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
 20 25

<210> 38  
 <211> 475  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<400> 38

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile  
 1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro  
 20 25 30

Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly  
 35 40 45

Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val  
 50 55 60



Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 65 70 75 80

Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val  
 85 90 95

Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro  
 100 105 110

Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 115 120 125

Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val  
 130 135 140

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly  
 145 150 155 160

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Val  
 165 170 175

Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro  
 180 185 190

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly  
 195 200 205

Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val  
 210 215 220

Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly  
 225 230 235 240

Ile Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile  
 245 250 255

Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro  
 260 265 270

Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly  
 275 280 285

Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 290 295 300

Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly  
 305 310 315 320

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Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val  
325 330 335

Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
340 345 350

Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly  
355 360 365

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val  
370 375 380

Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly  
385 390 395 400

Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly Ile  
405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Ile Pro  
420 425 430

Gly Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly  
435 440 445

Val Gly Val Pro Gly Val Gly Ile Pro Gly Val Gly Val Pro Gly Val  
450 455 460

Gly Ile Pro Gly Val Gly Val Pro Gly Val Gly  
465 470 475

<210> 39  
<211> 10  
<212> DNA  
<213> Artificial

<220>  
<223> Synthetic construct

<220>  
<221> misc\_feature  
<222> (7)..(10)  
<223> n is a, c, g, or t

<400> 39  
ctcttcnnnn

10

<210> 40  
<211> 25  
<212> PRT  
<213> Artificial

<220>  
<223> synthetic construct.

<220>  
<221> REPEAT  
<222> (1)..(25)

<400> 40

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly  
20 25

<210> 41  
<211> 750  
<212> PRT  
<213> Artificial

<220>  
<223> synthetic construct.

<400> 41

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
20 25 30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
35 40 45

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
50 55 60

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
85 90 95

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
100 105 110

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
115 120 125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
130 135 140

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Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
145 150 155 160

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
165 170 175

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
180 185 190

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
195 200 205

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
210 215 220

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
225 230 235 240

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
260 265 270

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
275 280 285

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
305 310 315 320

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
325 330 335

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
340 345 350

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
355 360 365

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
370 375 380

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly

385

390

395

400

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 405 410 415  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 420 425 430  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 435 440 445  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 450 455 460  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 465 470 475 480  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 485 490 495  
 Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 500 505 510  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 515 520 525  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 530 535 540  
 Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
 545 550 555 560  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 565 570 575  
 Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 580 585 590  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 595 600 605  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 610 615 620  
 Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 625 630 635 640

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
660 665 670

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
675 680 685

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
740 745 750

<210> 42  
<211> 1200  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 42

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
1 5 10 15

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
20 25 30

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
35 40 45

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
50 55 60

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
65 70 75 80

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
85 90 95

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
Page 38

100

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
115 120 125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
130 135 140

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
145 150 155 160

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
165 170 175

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
180 185 190

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
195 200 205

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
210 215 220

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
225 230 235 240

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
245 250 255

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
260 265 270

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
275 280 285

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
290 295 300

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
305 310 315 320

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
325 330 335

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
340 345 350

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 355 360 365  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 370 375 380  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 385 390 395 400  
 Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 405 410 415  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 420 425 430  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 435 440 445  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 450 455 460  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 465 470 475 480  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 485 490 495  
 Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 500 505 510  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 515 520 525  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 530 535 540  
 Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
 545 550 555 560  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 565 570 575  
 Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 580 585 590  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 595 600 605



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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 610 615 620  
 Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 625 630 635 640  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 645 650 655  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 660 665 670  
 Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 675 680 685  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
 690 695 700  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 705 710 715 720  
 Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
 725 730 735  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 740 745 750  
 Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 755 760 765  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 770 775 780  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 785 790 795 800  
 Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 805 810 815  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 820 825 830  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 835 840 845  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 850 855 860

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
885 890 895

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
900 905 910

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
915 920 925

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
965 970 975

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
980 985 990

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
995 1000 1005

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1010 1015 1020

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1025 1030 1035

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1040 1045 1050

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1055 1060 1065

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
1070 1075 1080

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1085 1090 1095

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1100 1105 1110

1100

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1115 1120 1125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1130 1135 1140

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
1145 1150 1155

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1160 1165 1170

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1175 1180 1185

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
1190 1195 1200

<210> 43  
<211> 528  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 43

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
1 5 10 15

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
20 25 30

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
35 40 45

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
50 55 60

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
65 70 75 80

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
85 90 95

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
100 105 110

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
115 120 125

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
130 135 140

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
145 150 155 160

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
165 170 175

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
180 185 190

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
195 200 205

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
210 215 220

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
225 230 235 240

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
245 250 255

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
260 265 270

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
275 280 285

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
290 295 300

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
305 310 315 320

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
325 330 335

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
340 345 350

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
Page 44

355

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
370 375 380

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
385 390 395 400

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
405 410 415

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
420 425 430

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
435 440 445

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
450 455 460

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
465 470 475 480

Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly  
485 490 495

Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
500 505 510

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly  
515 520 525

<210> 44  
<211> 5  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> REPEAT  
<222> (1)..(5)  
<223> [(VPGMG)5]x; wherein x is from about 10 to about 100

<400> 44

Val Pro Gly Met Gly  
1 5

<210> 45  
 <211> 106  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Synthetic construct.  
  
 <400> 45  
 aagcttgaag acgttccagg tgcaggcgta ccgggtgctg gcgttccggg tgaagggtgtt 60  
 ccaggcgcag gtgtaccggg tgcgggtgtt ccaagagacg ggatcc 106  
  
 <210> 46  
 <211> 106  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Synthetic construct.  
  
 <400> 46  
 aagcttgaag acgttccagg ttccggcatc ccgggtgtag gtatcccagg cgttgggtatt 60  
 ccgggtgtag gcatccctgg cgttggcggt ccaagagacg ggatcc 106  
  
 <210> 47  
 <211> 106  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Synthetic construct.  
  
 <400> 47  
 aagcttgaag acattccagc tgttggtatc ccggctgttg gtatcccagc tgttggcatt 60  
 ccggctgtag gtatcccggc tgttggtatt ccaagagacg ggatcc 106  
  
 <210> 48  
 <211> 57  
 <212> DNA  
 <213> Artificial  
  
 <220>  
 <223> Synthetic construct.  
  
 <400> 48  
 ccatggttcc agagtcttca ggtaccgaag acgttccagg tgtaggctaa taagctt 57  
  
 <210> 49  
 <211> 400  
 <212> PRT  
 <213> Artificial  
  
 <220>  
 <223> Synthetic construct.  
  
 <400> 49

133-02 US SEQ LIST 20nov2003.ST25.txt

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
35 40 45

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
85 90 95

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
210 215 220

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
245 250 255

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
260 265 270

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
385 390 395 400

<210> 50  
<211> 410  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 50

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60



133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly  
405 410

<210> 51  
<211> 821  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<220>  
<221> MISC\_FEATURE  
<222> (411)..(411)  
<223> X at position 411 represents an optionally selected midblock structure.

<400> 51

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

133-02 US SEQ LIST 20nov2003.ST25.txt

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Xaa Val Pro Ala Val Gly  
405 410 415

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
420 425 430

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
435 440 445

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
450 455 460

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
465 470 475 480

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
485 490 495

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
500 505 510

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
515 520 525

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
530 535 540

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
545 550 555 560

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
565 570 575

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
580 585 590

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
595 600 605

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
610 615 620

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
625 630 635 640

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
645 650 655

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
660 665 670

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
675 680 685

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
690 695 700

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
705 710 715 720

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
725 730 735

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
740 745 750

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
755 760 765

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
770 775 780

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
785 790 795 800

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
805 810 815

Ile Pro Ala Val Gly  
820

<211> 1580  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Synthetic construct.

<400> 52

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
 20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
 65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
 145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
 165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 210 215 220

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
420 425 430

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
435 440 445

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
465 470 475 480 485 490 495

465 470 475 480  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 485 490 495  
 Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 500 505 510  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 515 520 525  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 530 535 540  
 Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
 545 550 555 560  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 565 570 575  
 Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 580 585 590  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 595 600 605  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 610 615 620  
 Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 625 630 635 640  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 645 650 655  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 660 665 670  
 Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 675 680 685  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
 690 695 700  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 705 710 715 720



Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
740 745 750

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
805 810 815

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
835 840 845

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
850 855 860

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
885 890 895

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
900 905 910

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
915 920 925

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
965 970 975

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
980 985 990

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
995 1000 1005

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1010 1015 1020

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1025 1030 1035

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1040 1045 1050

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1055 1060 1065

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
1070 1075 1080

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1085 1090 1095

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1100 1105 1110

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1115 1120 1125

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1130 1135 1140

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
1145 1150 1155

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Ala  
1160 1165 1170

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1175 1180 1185

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1190 1195 1200

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1205 1210 1215

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1220 1225 1230  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1235 1240 1245  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1250 1255 1260  
 Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1265 1270 1275  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1280 1285 1290  
 Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1295 1300 1305  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1310 1315 1320  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1325 1330 1335  
 Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1340 1345 1350  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1355 1360 1365  
 Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1370 1375 1380  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1385 1390 1395  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1400 1405 1410  
 Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1415 1420 1425  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1430 1435 1440  
 Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala

1445

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1460 1465 1470

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1475 1480 1485

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1490 1495 1500

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1505 1510 1515

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1520 1525 1530

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1535 1540 1545

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1550 1555 1560

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1565 1570 1575

Val Gly  
1580

<210> 53  
<211> 2030  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic construct.

<400> 53

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1 5 10 15

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly

133-02 US SEQ LIST 20nov2003.ST25.txt  
 305 310 315 320  
 Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 325 330 335  
 Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
 340 345 350  
 Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 355 360 365  
 Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
 370 375 380  
 Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
 385 390 395 400  
 Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val  
 405 410 415  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
 420 425 430  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 435 440 445  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
 450 455 460  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
 465 470 475 480  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 485 490 495  
 Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
 500 505 510  
 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 515 520 525  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
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 Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 565 570 575  
 Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 580 585 590  
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 595 600 605  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
 610 615 620  
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 625 630 635 640  
 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
 645 650 655  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
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 675 680 685  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
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 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 705 710 715 720  
 Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
 725 730 735  
 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 740 745 750  
 Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 755 760 765  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 770 775 780  
 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 785 790 795 800  
 Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 805 810 815

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
820 825 830

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
835 840 845

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
850 855 860

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
865 870 875 880

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
885 890 895

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
900 905 910

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
915 920 925

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
930 935 940

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
965 970 975

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
980 985 990

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
995 1000 1005

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1010 1015 1020

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1025 1030 1035

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1040 1045 1050

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1055 1060 1065



133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 1070 1075 1080  
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 1085 1090 1095  
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 1100 1105 1110  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1115 1120 1125  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1130 1135 1140  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 1145 1150 1155  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1160 1165 1170  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 1175 1180 1185  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1190 1195 1200  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1205 1210 1215  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
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 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1235 1240 1245  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 1250 1255 1260  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1265 1270 1275  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1280 1285 1290  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
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1295

Val Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1310		1315		1320	
Val Gly	Val Pro Gly Glu	Gly	Val Pro Gly	Val Gly	Val Pro Gly
1325		1330		1335	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1340		1345		1350	
Glu Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1355		1360		1365	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly Glu	Gly	Val Pro Gly
1370		1375		1380	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1385		1390		1395	
Val Gly	Val Pro Gly Glu	Gly	Val Pro Gly	Val Gly	Val Pro Gly
1400		1405		1410	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1415		1420		1425	
Glu Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1430		1435		1440	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly Glu	Gly	Val Pro Gly
1445		1450		1455	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1460		1465		1470	
Val Gly	Val Pro Gly Glu	Gly	Val Pro Gly	Val Gly	Val Pro Gly
1475		1480		1485	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1490		1495		1500	
Glu Gly	Val Pro Gly	Val Gly	Val Pro Gly	Val Gly	Val Pro Gly
1505		1510		1515	
Val Gly	Val Pro Gly	Val Gly	Val Pro Gly Glu	Gly	Val Pro Gly
1520		1525		1530	

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1535 1540 1545

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1550 1555 1560

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1565 1570 1575

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1580 1585 1590

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
1595 1600 1605

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Ala  
1610 1615 1620

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1625 1630 1635

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1640 1645 1650

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1655 1660 1665

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1670 1675 1680

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1685 1690 1695

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1700 1705 1710

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1715 1720 1725

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1730 1735 1740

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1745 1750 1755

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1760 1765 1770

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val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1775 1780 1785  
 val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1790 1795 1800  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1805 1810 1815  
 val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1820 1825 1830  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1835 1840 1845  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1850 1855 1860  
 val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1865 1870 1875  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1880 1885 1890  
 val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1895 1900 1905  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1910 1915 1920  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1925 1930 1935  
 val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1940 1945 1950  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1955 1960 1965  
 val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1970 1975 1980  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1985 1990 1995  
 val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 2000 2005 2010

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
2015 2020 2025

Val Gly  
2030

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Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Ala  
405 410 415

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
420 425 430

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
435 440 445

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
450 455 460

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
465 470 475 480

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
485 490 495

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
500 505 510

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
515 520 525

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
530 535 540

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
545 550 555 560

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
565 570 575

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
580 585 590

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
595 600 605

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
610 615 620

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
625 630 635 640

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
645 650 655

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
660 665 670

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
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675

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
690 695 700

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
705 710 715 720

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
725 730 735

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
740 745 750

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
755 760 765

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
770 775 780

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
785 790 795 800

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
805 810 815

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
820 825 830

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
835 840 845

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
850 855 860

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
865 870 875 880

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
885 890 895

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
900 905 910

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
915 920 925



Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
 930 935 940

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
 945 950 955 960

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
 965 970 975

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
 980 985 990

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
 995 1000 1005

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 1010 1015 1020

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 1025 1030 1035

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro  
 1040 1045 1050

Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
 1055 1060 1065

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly  
 1070 1075 1080

Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly  
 1085 1090 1095

Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro  
 1100 1105 1110

Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
 1115 1120 1125

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Val Gly Val Pro Ala  
 1130 1135 1140

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1145 1150 1155

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1160 1165 1170

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1175 1180 1185  
 Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1190 1195 1200  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1205 1210 1215  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1220 1225 1230  
 Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1235 1240 1245  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1250 1255 1260  
 Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1265 1270 1275  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 1280 1285 1290  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1295 1300 1305  
 Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1310 1315 1320  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1325 1330 1335  
 Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1340 1345 1350  
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 1355 1360 1365  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1370 1375 1380  
 Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 1385 1390 1395  
 Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 1400 1405 1410

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1415 1420 1425

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1430 1435 1440

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1445 1450 1455

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1460 1465 1470

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1475 1480 1485

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1490 1495 1500

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1505 1510 1515

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1520 1525 1530

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1535 1540 1545

Val Gly  
1550

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<223> Synthetic construct.

<400> 55

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<210> 56  
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<213> Artificial

<220>  
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<400> 56

Thr Gly Leu Pro Val Gly Val Gly Tyr Val Val Thr Val Leu Thr  
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<210> 57

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Synthetic construct.

<400> 57

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<210> 58

<211> 830

<212> PRT

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<400> 58

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
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Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
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Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
 145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
 165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
 225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
 245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
 290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
 305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
 340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
 370 375 380

133-02 US SEQ LIST 20nov2003.ST25.txt

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
420 425 430

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
435 440 445

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
450 455 460

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
465 470 475 480

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
485 490 495

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
500 505 510

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
515 520 525

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
530 535 540

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
545 550 555 560

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
565 570 575

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
580 585 590

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
595 600 605

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
610 615 620

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
625 630 635 640

133-02 US SEQ LIST 20nov2003.ST25.txt

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
645 650 655

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
660 665 670

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
675 680 685

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
690 695 700

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
705 710 715 720

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
725 730 735

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
740 745 750

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
755 760 765

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
770 775 780

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
785 790 795 800

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
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<400> 59

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133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270



133-02 US SEQ LIST 20nov2003.ST25.txt

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
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Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
435 440 445

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
465 470 475 480

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
485 490 495

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
500 505 510

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

515

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
530 535 540

Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly  
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
565 570 575

Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
580 585 590

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
595 600 605

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
610 615 620

Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
625 630 635 640

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val  
645 650 655

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
660 665 670

Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
675 680 685

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu  
690 695 700

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
705 710 715 720

Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
740 745 750

Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
755 760 765

Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val  
 770 775 780

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
 785 790 795 800

Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
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Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro  
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 835 840 845

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val  
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly  
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
 885 890 895

Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro  
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val  
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 945 950 955 960

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
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Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
 980 985 990

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1010 1015 1020

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
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 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1055 1060 1065  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 1070 1075 1080  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1085 1090 1095  
 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 1100 1105 1110  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1115 1120 1125  
 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
 1130 1135 1140  
 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
 1145 1150 1155  
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 1160 1165 1170  
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 Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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 Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
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 Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
 1250 1255 1260

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
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Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly  
1295 1300 1305

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1310 1315 1320

Val Gly Val Pro Gly Glu Gly Val Pro Gly Val Gly Val Pro Gly  
1325 1330 1335

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1340 1345 1350

Glu Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
1355 1360 1365

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1370 1375 1380

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1385 1390 1395

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1400 1405 1410

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1415 1420 1425

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1430 1435 1440

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1445 1450 1455

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1475 1480 1485

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala

1490

Val Gly 1505	Ile Pro Ala	Val Gly 1510	Ile Pro Ala	Val Gly 1515	Ile Pro Ala
Val Gly 1520	Val Pro Ala	Val Gly 1525	Ile Pro Ala	Val Gly 1530	Ile Pro Ala
Val Gly 1535	Ile Pro Ala	Val Gly 1540	Ile Pro Ala	Val Gly 1545	Val Pro Ala
Val Gly 1550	Ile Pro Ala	Val Gly 1555	Ile Pro Ala	Val Gly 1560	Ile Pro Ala
Val Gly 1565	Ile Pro Ala	Val Gly 1570	Val Pro Ala	Val Gly 1575	Ile Pro Ala
Val Gly 1580	Ile Pro Ala	Val Gly 1585	Ile Pro Ala	Val Gly 1590	Ile Pro Ala
Val Gly 1595	Val Pro Ala	Val Gly 1600	Ile Pro Ala	Val Gly 1605	Ile Pro Ala
Val Gly 1610	Ile Pro Ala	Val Gly 1615	Ile Pro Ala	Val Gly 1620	Val Pro Ala
Val Gly 1625	Ile Pro Ala	Val Gly 1630	Ile Pro Ala	Val Gly 1635	Ile Pro Ala
Val Gly 1640	Ile Pro Ala	Val Gly 1645	Val Pro Ala	Val Gly 1650	Ile Pro Ala
Val Gly 1655	Ile Pro Ala	Val Gly 1660	Ile Pro Ala	Val Gly 1665	Ile Pro Ala
Val Gly 1670	Val Pro Ala	Val Gly 1675	Ile Pro Ala	Val Gly 1680	Ile Pro Ala
Val Gly 1685	Ile Pro Ala	Val Gly 1690	Ile Pro Ala	Val Gly 1695	Val Pro Ala
Val Gly 1700	Ile Pro Ala	Val Gly 1705	Ile Pro Ala	Val Gly 1710	Ile Pro Ala
Val Gly 1715	Ile Pro Ala	Val Gly 1720	Val Pro Ala	Val Gly 1725	Ile Pro Ala

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1730 1735 1740

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
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Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1760 1765 1770

Val Gly Ile Pro Ala Val Gly  
1775 1780

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<223> Synthetic construct.

<400> 60

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Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155

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Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Ala  
 405 410 415  
 Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
 420 425 430  
 Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
 435 440 445  
 Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
 450 455 460  
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 465 470 475 480  
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 Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
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 545 550 555 560  
 Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
 565 570 575  
 Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
 580 585 590  
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 595 600 605  
 Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
 610 615 620  
 Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
 625 630 635 640  
 Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
 645 650 655

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
660 665 670

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
675 680 685

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
690 695 700

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
705 710 715 720

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
725 730 735

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
740 745 750

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
755 760 765

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
770 775 780

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
785 790 795 800

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
805 810 815

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
820 825 830

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
835 840 845

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
850 855 860

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
865 870 875 880

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
885 890 895

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
900 905 910

133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala  
915 920 925

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala  
930 935 940

Pro Gly Gly Val Pro Gly Gly Ala Pro Gly Gly Ala Pro Gly Gly Val  
945 950 955 960

Pro Gly Gly Ala Pro Gly Gly Val Pro Gly Val Gly Val Pro Ala Val  
965 970 975

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
980 985 990

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
995 1000 1005

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
1010 1015 1020

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1025 1030 1035

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
1040 1045 1050

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1055 1060 1065

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1070 1075 1080

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
1085 1090 1095

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1100 1105 1110

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
1115 1120 1125

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1130 1135 1140

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
Page 91

1145

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
1160 1165 1170

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1175 1180 1185

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
1190 1195 1200

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1205 1210 1215

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1220 1225 1230

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
1235 1240 1245

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1250 1255 1260

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
1265 1270 1275

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1280 1285 1290

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1295 1300 1305

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
1310 1315 1320

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1325 1330 1335

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
1340 1345 1350

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
1355 1360 1365

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
1370 1375 1380

133-02 US SEQ LIST 20nov2003.ST25.txt

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<400> 61

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Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
 20 25 30

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
 35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
 65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
 85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
 115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
 145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
 165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
 180 185 190

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
 195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
 Page 93

210

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
290 295 300

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
305 310 315 320

Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
420 425 430

Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn  
435 440 445

Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
450 455 460

Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly  
 465 470 475 480  
 Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val  
 485 490 495  
 Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro  
 500 505 510  
 Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn  
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 580 585 590  
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 595 600 605  
 Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro Asn Val  
 610 615 620  
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 625 630 635 640  
 Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val  
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 Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly Val Pro  
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 675 680 685  
 Val Gly Val Pro Gly Val Gly Val Pro Asn Val Gly Val Pro Asn Val  
 690 695 700  
 Gly Val Pro Asn Val Gly Val Pro Asn Val Gly Val Pro Gly Val Gly  
 705 710 715 720

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
725 730 735

Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro  
740 745 750

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
755 760 765

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
770 775 780

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
785 790 795 800

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
805 810 815

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
820 825 830

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
835 840 845

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
850 855 860

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
865 870 875 880

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
885 890 895

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
900 905 910

Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
915 920 925

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
930 935 940

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
945 950 955 960

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
965 970 975



133-02 US SEQ LIST 20nov2003.ST25.txt

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
980 985 990

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
995 1000 1005

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1010 1015 1020

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1025 1030 1035

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1040 1045 1050

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1055 1060 1065

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1070 1075 1080

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
1085 1090 1095

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
1100 1105 1110

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
1115 1120 1125

Val Gly  
1130

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<213> Artificial

<220>  
<223> Synthetic construct.

<400> 62

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133-02 US SEQ LIST 20nov2003.ST25.txt

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
35 40 45

Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
50 55 60

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly  
65 70 75 80

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
85 90 95

Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
100 105 110

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala  
115 120 125

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
130 135 140

Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly  
145 150 155 160

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val  
165 170 175

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
180 185 190

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195 200 205

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val  
210 215 220

Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
225 230 235 240

Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile  
245 250 255

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
260 265 270

Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
275 280 285

133-02 US SEQ LIST 20nov2003.ST25.txt

Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val  
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Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
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Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile  
325 330 335

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro  
340 345 350

Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
355 360 365

Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val  
370 375 380

Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly  
385 390 395 400

Val Pro Ala Val Gly Ile Pro Ala Val Gly Val Pro Gly Val Gly Val  
405 410 415

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro  
420 425 430

Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
435 440 445

Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val  
450 455 460

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly  
465 470 475 480

Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
485 490 495

Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro  
500 505 510

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly  
515 520 525

Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val

530

Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly  
545 550 555 560

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val  
565 570 575

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro  
580 585 590

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly  
595 600 605

Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile  
610 615 620

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly  
625 630 635 640

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val  
645 650 655

Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro  
660 665 670

Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly  
675 680 685

Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val  
690 695 700

Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly  
705 710 715 720

Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val  
725 730 735

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro  
740 745 750

Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly  
755 760 765

Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile  
770 775 780

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785 790 795 800

Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val  
805 810 815

Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro  
820 825 830

Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly  
835 840 845

Ile Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val  
850 855 860

Gly Val Pro Gly Val Gly Val Pro Gly Ile Gly Val Pro Gly Val Gly  
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Val Pro Gly Ile Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val  
885 890 895

Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
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Ala Val Gly Ile Pro Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala  
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Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro  
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Ala Val Gly Val Pro Ala Val Gly Ile Pro Ala Val Gly Ile Pro Ala  
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